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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,215	04/08/2004	Hongyuan Wang	9896-000036/CO	9409
27572	7590	03/08/2010		
HARNES, DICKEY & PIERCE, P.L.C.				
P.O. BOX 828				
BLOOMFIELD HILLS, MI 48303				
EXAMINER				
YENKE, BRIAN P				
ART UNIT		PAPER NUMBER		
2622				
MAIL DATE		DELIVERY MODE		
03/08/2010		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.

10/821,215

Applicant(s)

WANG ET AL.

Examiner

BRIAN P. YENKE

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Amendment (01/08/10).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/22)
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date: \_\_\_\_\_

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Der Weij et al., US 5,781,245 in view of Isoda (JP-2000-041185).

In considering claim 1,

a) the claimed providing a caption generating module is met by elements server 612, generator 614 and inserter 616 (col 4, line 14-22), wherein based upon a user's selection of a particular TXT page (col 4, line 37-61) wherein the TXT data is merged transparently (col 3, line 49-57).

b) the claimed providing a caption overlaying module..is met by transmitter 618, inserter 616 along with the generator 614 and server 612, wherein the combined/mingled image (video/TXT) is transmitted from one location to another, also as noted by Van Der Weij, the system may be used for a multiple user game or video conference (col 6, line 35-40), where signals would be transferred from one location to another. It is also noted than

Van Der Weij discloses that the user may activate or deactivate one or more of the windows via a user request (col 6, line 34-45).

It is noted that Van Der Weij, does not explicitly recite the conventional features of overlaying a subtitle onto a TV signal (608) being encoded or digital, nonetheless, the examiner will evidence the features of such.

The examiner incorporates Isoda which discloses that a video image and subtitle are transmitted together (overlayed) which may be received and displayed as the transmitted/overlayed image (without any VBI detection/separation as known in analog images). See Fig 5 wherein image 501 (signal 153) is overlayed with subtitle 502 (signal 152) to create composite 503 (signal 155) which is transmitted as a part of signal 159 (Fig 1) through network 20 and received by digital system 30. The received signal 351 is shown in Fig 6 (which is the transmitted overlayed image/subtitle 503 (Fig 5).

The motivation for modifying Van Der Weij with Isoda would provide a system that could efficiently transmit images and subtitle information together thereby without separating/processing/combining the images again, thus being more efficient.

Regarding the newly amended overseas terminals, in view of the Supreme Courts decision with respect to KSR vs Teleflex, the features of providing captioning data which was displayable either on a local and/or remote system would be obvious to the language of a regions for the immediate benefit of being able to be read.

In considering claim 2,

Van Der Weij discloses that the portioning of the image/display/windows (size, orientation, number of windows) is known in the art and is typically done at the broadcasting side (col 3, line 31-39), in addition it is noted that Van Der Weij discloses the use of a video conferencing system, including multiple users.

In considering claim 4,

As stated above with respect to claim 1, Van Der Weij discloses displaying the TXT information on a transparent background.

In considering claims 5,

The combination above does not explicitly recite "dot matrix" however this is a conventional format of captioned data, thus the examiner takes "OFFICIAL NOTICE" regarding such. See attached previously cited US20030215219.

In considering claim 6,

The combination above discloses overlaying the caption/TXT on the digital image prior to encoding, since the two signals are combined into a single signal.

In considering claim 7,

Please refer to claim 1 above.

In considering claim 8,

Please refer to claim 5 above.

In considering claims 9-10,

Van Der Weij discloses a TXT generator 614, inserter 616 and sending unit 618 via cable TV network 608, although Van Der Weij does not explicitly recite a CODEC unit, the functions of overlaying the caption data with image data is performed thus meeting the limitation.

### ***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(571)-273-8300**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is

(703)305-HELP.

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(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS). PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

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/BRIAN P. YENKE/  
Primary Examiner, Art Unit 2622

B.P.Y  
02 Mar 10